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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,628	06/23/2005	Tatsuo Yokoi	52433/801	6709
26646 TOSOO LUP KENYON & KENYON LLP ONE BROADWAY			EXAMINER	
			YEE, DEBORAH	
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			10/15/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/540.628 YOKOI ET AL. Office Action Summary Examiner Art Unit Deborah Yee 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 11 August 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) 5-9 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-4 and 10 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 23 June 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 8/11/08

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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## DETAILED ACTION

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 11, 2008 has been entered.

#### Election/Restrictions

Claims 5 to 9 are withdrawn from further consideration pursuant to 37 CFR
1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on November 26, 2007.

#### Specification

 The disclosure is objected to because of the following informalities: In the specification, Applicant's C\*equation needs to changed from "-12/14N" to read ---+12/14N—in order to correct typographical.

### Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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 Claims 1 to 4 and 10 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 408157957 to Kashima et al. ("JP-957") for the reasons set forth in the previous office action dated February 13, 2008.

#### Response to Arguments

- Applicant's arguments filed August 11, 2008 have been fully considered but they are not persuasive.
- 7. Applicant argued that JP-957 requires the presence of Cu and Ni to obtain high tensile strength and hole-expandability ratio whereas present invention steel does not. It is the Examiner's position that prior art Cu and Ni are not excluded by the transitional phrase "consisting essentially of" recited by Applicant's claims. Note elements would not appear to affect the basic and novel characteristics of the present invention since they were originally included as additives for the present invention alloy.
- 8. It was argued that JP-957 in paragraph [0011] teaches that if the C content does not satisfy equation (1) or (2), then dissolution (equivalent to solid solution). C remains in the ferrite phase and forms a secondary phase in the ferrite phase and deteriorate flanging property. On the other hand, according to the present invention, C\* amount (solid solution C) is defined as over 0% and up to 0.05% for softening resistance of the weld heat affect zone and ensuring hole expandability.
- 9. In response to argument, Applicant's C\* amount does not appear to define the amount of solid solution C actively present in the steel but rather the amount of solid solution C that combines with Nb and Ti to form carbides and increase strength, and the

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amount of solid solution C that combines with Mo or Cr to prevent softening of the HAZ. See pages 10 and 11 of Applicant's specification.

- 10. Similar to present invention, JP-957 in paragraph [0016] and [0021] teaches adding Ti, Nb, Mo and Cr as strengthening elements that combine with solid solution carbon to form carbide precipitation. More specifically, prior art examples in table 1 on page 6 closely approximate the claimed composition and C\* equation = 0.04-(12/48 (0.105)-12/32(0.001) = 0.0137 and is within the claimed C\* range of >0 to 0.05.
- 11. To distinguish claims over JP-957, it is recommended to use language that actively recites the presence of solid solution carbon in hot rolled welded steel such as ---wherein an effective amount of solid solution C is present in said hot rolled welded steel sheet to achieve excellent softening resistance at the weld heat affected zone---.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner Art Unit 1793

/DY/